

Claims

1. A pillar drilling machine (1) comprising a drill head (3) which is supported on a pillar (2), and a base (4) for supporting said pillar (2), as well as a power supply strand (5) leading to said drill head (3), wherein an accommodation chamber (8) is provided, which extends substantially longitudinally in the interior of said pillar (2), said power supply strand (5) being arranged, at least sectionwise, in said accommodation chamber (8) such that it extends substantially longitudinally.
2. A pillar drilling machine according to claim 1,
characterized in that
the power supply strand (5) extends from the base (4) to the drill head (3) in the interior of the pillar drilling machine (1).
3. A pillar drilling machine according to one of the claims 1 or 2,
characterized in that
in the area of the base (4) and the pillar (2) and/or in the area of the pillar (2) and the drill head (3) a respective connectable separation point of the power supply strand (5) is provided.
4. A pillar drilling machine according to claim 3,
characterized in that
the separation point is implemented as a releasable plug connection (6).
5. A pillar drilling machine according to claim 4,
characterized in that
the plug connection (6) is, at least sectionwise, provided in the interior of the pillar (2).
6. A pillar drilling machine according to one of the claims 4 or 5,
characterized in that
the plug connection (6) comprises at least one connector (13, 47), which is prevented from moving in a direction opposite to the release direction of the plug connection (6) by a tension relief relative to the pillar (2) and/or the base (4) and/or the drill head (3).

7. A pillar drilling machine according to claim 6,
characterized in that
the tension relief of a first connector (13) relative to the pillar (2) is a clamping profile (18) provided on said first connector (13) and/or said pillar (2).
8. A pillar drilling machine according to one of the claims 6 or 7,
characterized in that
the tension relief of a second connector (47) relative to the base (4) or the drill head (3) is a separate flange member (59) that holds the second connector (47) on said base (4) or said drill head (3) in a direction opposite to the release direction of the plug connection (6).
9. A pillar drilling machine according to at least one of the claims 4 to 8,
characterized in that
the plug connection (6) comprises at least one connector (13, 47) having at least one locating projection (23, 55) by means of which it is attached to the pillar (2) or the base (4) or the drill head (3) in an oriented manner.
10. A pillar drilling machine according to at least one of the preceding claims 4 to 9,
characterized in that
the plug connection (6) comprises at least one plug (98) comprising a fastening module (99) and, separately therefrom, an electric connector module (100) which is adapted to be releasably attached to said fastening module.
11. A pillar drilling machine according to at least one of the preceding claims,
characterized in that
a storage facility for the power supply strand is provided in the area of the base (4).
12. A pillar drilling machine according to claim 11,
characterized in that
the storage facility is implemented in the form of a cable spider or a cable drum.
13. A pillar drilling machine according to at least one of the preceding claims,
characterized in that

the base (4) has provided therein at least one opening (42, 108) through which the power supply strand (5) is led out of the area of the base (4).

14. A pillar drilling machine according to claim 13,
characterized in that
 the opening (108) is provided with a holding element (111) which is adapted to be inserted in said opening (108) and which includes at least one holding profile (115) by means of which the power supply strand (5, 41) can be fixed at a predetermined position relative to said holding element (111).
15. A pillar drilling machine according to at least one of the preceding claims,
characterized in that
 a flange member (59) is provided by means of which the pillar (2) is supported on the base (4) such that it is centered relative thereto.
16. A pillar drilling machine according to claim 15,
characterized in that
 a plug connection (6) is arranged, at least sectionwise, in the interior of the flange member (59).
17. A pillar drilling machine according to one of the claims 15 or 16,
characterized in that
 the pillar (2) and the flange member (59) each include at least one hole (12, 69) through which one and the same fixing means (70) extends at least sectionwise.
18. A pillar drilling machine according to at least one of the preceding claims,
characterized in that
 the drill head (3) is adapted to be rotated relative to the pillar (2) and that a rotation limiting device (89, 90, 95) is provided.
19. A pillar drilling machine according to claim 18,
characterized in that
 a recess (89) is provided on the pillar (2) or the drill head (3) and that a profile (90), which is adapted to be guided in said recess (89), is provided on said drill head (3) or

said pillar (2), the rotary movement being limited in that the profile (90) comes into contact with the end portions (91, 92) of said recess (89).

20. A pillar drilling machine according to claim 19,
characterized in that
the recess (89) is implemented as a groove extending transversely to the longitudinal direction (11) of the pillar (2).
21. A pillar drilling machine according to at least one of the preceding claims 18 to 20,
characterized in that,
between the pillar (2) and the drill head (3), a releasable clamping means (77) is supported by means of which the drill head (3) can be prevented from rotating relative to the pillar (2)
22. A pillar drilling machine according to claim 21,
characterized in that
the clamping means (77) comprises two clamping elements (78, 79) which are of such a nature that the distance between them can be adjusted and each of which is adapted to be brought into clamping engagement with the pillar (2), said clamping means (77) being radially supported on the drill head (3).
23. A pillar drilling machine according to claim 22,
characterized in that
the clamping means (77) is provided with a screw mechanism (82, 84) by means of which the distance between said clamping elements (78, 79) can be adjusted.
24. A pillar drilling machine according to one of the claims 22 or 23,
characterized in that
at least one of said clamping elements (78, 79) has a contact surface (87, 88) corresponding to the shape of the pillar (2).
25. A pillar drilling machine according to at least one of the claims 21 to 24,
characterized in that
the clamping means (77) is accommodated in a hollow space (74) of the drill head (3),

which is intersected by a connection piece (72) in which the pillar (2) is accommodated sectionwise.